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(54) **Prioritized load balancing among non-communicating processes in a time-sharing system**

(57) A method and apparatus for prioritized load-balancing among non-communicating processes in a time-sharing system involves a Load Balancing Repository (LBR) which interfaces with each process that is actively addressed by the CPU. A scheduler within each process provides the LBR with a load distribution for that process representing the ratio of high-priority sub-task load to low-priority sub-task load. The LBR determines a target ratio in the form of an aggregate load distribution

ratio. The target ratio is reported back to each active process. For processes which are occupied with a relatively low proportion of high priority sub-tasks and which therefore exhibit a load distribution that is below the target ratio, the process scheduler will give up a portion of the time slice allotted to that process by the operating system when the load distribution of that process reaches the target ratio. Thus, CPU resources will be applied more frequently to processes which are occupied with a relatively high proportion of high priority sub-tasks.

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EUROPEAN SEARCH REPORT

Application Number
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 10 May 1999	Examiner Michel, T
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons S : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 99 30 0046

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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